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What is claimed is:

1 A method of adjusting transmission power in a CDMA terminal for code division multiple access communication with spread spectrum system and transmitting information using a plurality of code channels, said method comprising steps of:

generating base band signals by spreading data every code channel;

adjusting levels of said base band signals every code channel;

adding said adjusted base band signals over said plurality of code channels;

modulating based on a signal after addition to generate a high frequency signal;

adjusting a level of said high frequency signal; and sending said adjusted high frequency signal to the other station.

2 A method of adjusting transmission power in a CDMA terminal according to claim 1, wherein an adjustment in quantity of levels of said base band signals every code channel and an adjustment in quantity of a level of said high frequency signal are determined based on a control signal from said other station.

3 A method of adjusting transmission power in a CDMA terminal according to claim 2, wherein levels of said base

Sub B2 band signals are not changed and only a level of said high frequency signal is changed when said control signal is for increasing or decreasing the levels by a constant in quantity common to each of said code channels.

5 4 A method of adjusting transmission power in a CDMA terminal according to claim 1, wherein said step of adjusting a level of said high frequency signal comprises a step of adjusting an total average level of transmission signals of said code channels and said step of adjusting levels of said base band signals every code channel
10 comprises a step of adjusting a difference of levels between said code channels.

15 5 A method of adjusting transmission power in a CDMA terminal according to claim 1, further comprising a step of determining a level difference of said base band signals between the code channels in accordance with characteristic of a data to be transmitted to each code channel, and wherein a level for each code channel is adjusted in accordance with said determined level
20 difference.

6 A method of adjusting transmission power in a CDMA terminal according to claim 1 or 2, wherein an adjustment of levels said base band signals is not conducted for specific one code channel.

25 7 A method of adjusting transmission power in a CDMA

Sub B2 / terminal according to claim 1, wherein said CDMA terminal is a mobile station in a mobile communication system, and said other station is a base station in said mobile communication system.

5 8 A method of adjusting transmission power in a CDMA terminal according to claim 1, wherein said spread spectrum sytem is direct sequence system.

9 An apparatus for adjusting transmission power in a CDMA terminal for code division multiple access
10 communication with spread spectrum system and transmitting information using a plurality of code channels, comprising:

a plurality of spreading means disposed for each code channel, said spreading means for spreading data;

15 a plurality of first variable gain control means disposed for said each code channel, said first variable gain control means for adjusting levels of output signals from said spreading means;

20 adder for adding outputs from each of said first variable gain control means;

modulator for modulating based on an output from said adder, and outputting a high frequency signal; and

second variable gain control means for adjusting a level of said high frequency signal.

25 10 An apparatus for adjusting transmission power in a

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CDMA terminal according to claim 9, further comprising transmitter for sending an output signal from said second variable gain control means to the other station.

5 11 An apparatus for adjusting transmission power in a CDMA terminal according to claim 9, further comprising control means for determining a level adjustment in quantity in each of said first variable gain control means and said second variable gain control means based on a control signal from said other station.

10 12 An apparatus for adjusting transmission power in a CDMA terminal according to claim 11, wherein a total average level of transmission signals of said code channels is adjusted by said second variable gain control means, and a difference of levels between the code
15 channels is adjusted by said first variable gain control means.

13 An apparatus for adjusting transmission power in a CDMA terminal according to claim 9, further comprising;

20 level setting circuit for setting a level adjustment in quantity in each of said first variable gain control means based on a required level difference between said code channels and

25 control means for determining a level adjustment in quantity in said second variable gain control means based on a control signal from said other station.

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14 An apparatus for adjusting transmission power in a CDMA terminal according to claim 13, wherein said required level difference is determined using information with respect to characteristic of a transmission data in said each code channel.

15 An apparatus for adjusting transmission power in a CDMA terminal according to claim 9, wherein said first variable gain control means is not disposed in specific one code channel.

16 An apparatus for adjusting transmission power in a CDMA terminal according to claim 9, wherein each of said spreading circuits and each of said first variable gain control means are disposed in a digital signal processing circuit section, and said second variable gain control means is constructed as a high frequency analog circuit.

17 An apparatus for adjusting transmission power in a CDMA terminal according to claim 9, wherein said CDMA terminal is a mobile station in a mobile communication system, and said other station is a base station in said mobile communication system.

18 An apparatus for adjusting transmission power in a CDMA terminal according to claim 9, wherein said spread spectrum system is direct sequence system.

19 An apparatus for adjusting transmission power in a mobile station for code division multiple access

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communication with direct sequence system of spread spectrum system and transmitting information using a plurality of code channels, comprising:

5 a plurality of spreading means disposed for each code channel, said spreading means for spreading data;

a plurality of first variable gain control means disposed for said each code channel, said first variable gain control means for adjusting levels of output signals from said spreading means;

10 adder for adding outputs from each of said first variable gain control means;

modulator for modulating based on an output from said adder, and outputting a high frequency signal;

15 second variable gain control means for adjusting a level of said high frequency signal;

transmitter for sending an output signal from said second variable gain control means to the base station the other station; and

20 control means for determining a level adjustment in quantity in each of said first variable gain control means and said second variable gain control means based on a control signal from said other station.

Sub 83 } 20 An apparatus for adjusting transmission power in a
25 average level of transmission signals of said code

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channels is adjusted by said second variable gain control means, and a difference of levels between the code channels is adjusted by said first variable gain control means.

21 An apparatus for adjusting transmission power in a
CDMA terminal according to claim 19, further comprising;

level setting circuit for setting a level adjustment in quantity in each of said first variable gain control means based on a required level difference between said code channels and

control means for determining a level adjustment in quantity in said second variable gain control means based on a control signal from said other station.

22 An apparatus for adjusting transmission power in a CDMA terminal according to claim 19, wherein said required level difference is determined using information with respect to characteristic of a transmission data in said each code channel.

23 An apparatus for adjusting transmission power in a CDMA terminal according to claim 19, wherein said first variable gain control means is not disposed in specific one code channel.

24 An apparatus for adjusting transmission power in a
CDMA terminal according to claim 19, wherein each of said
spreading circuits and each of said first variable gain

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